

Title (en)  
INTERFERENCE PIGMENTS

Title (de)  
INTERFERENZPIGMENTE

Title (fr)  
PIGMENTS INTERFERENTIELS

Publication  
**EP 1025168 B2 20100818 (DE)**

Application  
**EP 98951520 A 19981014**

Priority  
• DE 19746067 A 19971017  
• EP 9806508 W 19981014

Abstract (en)  
[origin: DE19746067A1] Interference pigments based on flaky substrates have at least one series of layers comprising (A) a coating with a refractive index  $n \geq 2.0$ , (B) a colorless coating with a refractive index  $n \leq 1.8$  and (C) a non-absorbing, highly refractive coating, and optionally (D) an outer protective coating.

IPC 8 full level  
**A61K 8/18** (2006.01); **C09C 1/00** (2006.01); **A61K 8/11** (2006.01); **A61K 8/26** (2006.01); **A61Q 1/00** (2006.01); **A61Q 1/02** (2006.01); **C03C 1/10** (2006.01); **C03C 4/02** (2006.01); **C03C 17/34** (2006.01); **C04B 20/12** (2006.01); **C04B 33/14** (2006.01); **C08K 3/00** (2006.01); **C08K 9/02** (2006.01); **C09C 1/36** (2006.01); **C09C 3/06** (2006.01); **C09D 5/36** (2006.01); **C09D 7/12** (2006.01); **C09D 11/00** (2006.01); **C09D 11/02** (2006.01); **C09D 17/00** (2006.01); **C09D 201/00** (2006.01)

CPC (source: EP KR US)  
**A61K 8/0266** (2013.01 - EP US); **A61Q 1/02** (2013.01 - EP US); **C03C 1/10** (2013.01 - EP US); **C03C 17/3417** (2013.01 - EP US); **C08K 9/02** (2013.01 - EP US); **C09C 1/00** (2013.01 - KR); **C09C 1/0024** (2013.01 - EP); **C09C 1/0039** (2013.01 - EP); **C09D 5/36** (2013.01 - EP US); **A61K 2800/412** (2013.01 - EP US); **A61K 2800/436** (2013.01 - EP US); **A61K 2800/621** (2013.01 - EP US); **A61K 2800/63** (2013.01 - EP US); **A61K 2800/651** (2013.01 - EP US); **C09C 2200/1004** (2013.01 - EP); **C09C 2200/102** (2013.01 - EP); **Y10T 428/2993** (2015.01 - EP US)

Citation (opposition)  
Opponent :  
• WO 9308237 A1 19930429 - MERCK PATENT GMBH [DE]  
• WO 9401498 A1 19940120 - MERCK PATENT GMBH [DE], et al  
• US 4168986 A 19790925 - VENIS JR JOSEPH J  
• WO 9812266 A1 19980326 - MERCK PATENT GMBH [DE], et al  
• WO 9853011 A1 19981126 - MERCK PATENT GMBH [DE], et al  
• JP H07246366 A 19950926 - MAZDA MOTOR [JP]  
• EP 0753545 A2 19970115 - BASF AG [DE]  
• 1996, CURT R.VINCENZT VERLAG, HANNOVER, article R.GLAUSCH ET AL.: "Perglanzpigmente", pages: 1 - 53  
• C.SCHMIDT ET AL.: "Kontakte", 1992, DARMSTADT, pages: 15 - 24

Cited by  
EP1621585A2; WO2004052999A2; DE102009037935A1; WO2011020572A1; WO2007057328A1; WO2006021528A2; DE102009037933A1; WO2011020571A1; US8715407B2; US8765103B2; US10759941B2; EP3034564A1; US10934436B2; US11202739B2; WO2023275359A1; EP3034563A1; US10947391B2; EP3034562A1; US9663661B2; US10391043B2; US10799432B2

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**DE 19746067 A1 19990422**; CN 1129651 C 20031203; CN 1270615 A 20001018; DE 59806758 D1 20030130; EP 1025168 A1 20000809; EP 1025168 B1 20021218; EP 1025168 B2 20100818; JP 2001520296 A 20011030; JP 4065370 B2 20080326; KR 100643665 B1 20061110; KR 20010024014 A 20010326; MX PA00002576 A 20001001; TW 473521 B 20020121; US 6596070 B1 20030722; WO 9920695 A1 19990429

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**DE 19746067 A 19971017**; CN 98809228 A 19981014; DE 59806758 T 19981014; EP 9806508 W 19981014; EP 98951520 A 19981014; JP 2000517024 A 19981014; KR 20007002744 A 20000315; MX PA00002576 A 20000314; TW 87117046 A 19981014; US 52961900 A 20000417